

DEX-O-TEX

System Description Sheet



DECOR-FLOR BROADCAST EPOXY FLOOR

1/16" to 1/8" Decorative Colored Quartz Floor with Integral Covebase

1. PRODUCT DESCRIPTION

A. COMPOSITION

Decor-Flor is a decorative colored quartz broadcast flooring system, designed to produce a seamless floor and integral coved base. The floor ranges in thickness from 1/16" (1,59mm) to 1/8" (3,17mm) thick and consists of color quartz granules embedded in clear epoxy matrix, that is groutcoated and topcoated with a clear epoxy.

It can be applied over concrete, metal or wood sub-surfaces (Consult Crossfield for detailed specification for wood surfaces).

Colored quartz aggregate granules are available in standard color blends. The solid colored aggregates may be mixed to make any color combination which the above aggregates can produce. See the Decor-Flor and Cheminert CFS color card.

It can be finished with optional topcoats of clear (gloss) or matte finish, Dex-O-Tex Aero-Flor II aliphatic polyester urethane, which are chemical, abrasion and UV stable or topcoated with Posi-Tred CR when subjected to extreme environmental conditions or Elastaglaze a highly chemical and abrasion resistant polyurea topcoat.

Decor-Flor is available in the Dexcide series incorporating an anti-microbial biocide, which protects against growth of algae, bacteria, fungi, mold, mildew, yeast, etc.

It is often used in conjunction with Dex-O-Tex Wall-Glas to produce an integrated "cocoon effect" seamless floor and wall system.

B. TYPICAL USES

Floors for retail floors, laboratories, toilet rooms, kitchens, food processing areas, institutional floors, swimming pool perimeters, etc.

C. ADVANTAGES AND LIMITATIONS

ADVANTAGES:

1. Resistant to many chemicals (See Chemical Resistance Chart).
2. Produces a rapidly-installed, decorative seamless floor at moderate cost.
3. Installed only by Professional Factory-Trained Dex-O-Tex Contractors.

LIMITATIONS:

1. If sub-surface cracks, Dex-O-Tex Decor-Flor may reflect cracks to some degree.
2. Water vapor transmission upwards through on-ground concrete slabs may result in loosening of epoxy floors or improper curing of epoxy materials.
3. A waterproofing and crack isolation membrane can be installed prior to system application.
4. Moisture vapor transmission (MVT) in excess of 3.0

lbs./1000 sq/ft/per 24 hr. period per ASTM F1869, may result in delamination, discoloration or improper curing. Use Dex-O-Tex VaporControl™ Primer 100 over substrates, which have MVT emissions that exceed these limits. Consult with Crossfield prior to using VaporControl Primer 100 if moisture vapor transmission exceeds 15 lbs/1000 sq/ft/per 24 hr period per ASTM F1869.

2. TYPICAL PHYSICAL PROPERTIES at 75°F (24°C)

A. Compressive Strength ASTM C579 (Resin, Hardener & Aggregate)	10,000 psi (738 kg/cm ²)
B. Compressive Strength ASTM D695 (Resin & Hardener)	12,000 psi (907 kg/cm ²)
C. Tensile Strength ASTM C307 (Resin, Hardener & Aggregate)	1,800 psi (127 kg/cm ²)
D. Tensile Strength ASTM D638 (Resin & Hardener)	4,400 psi (310 kg/cm ²)
E. Flexural Strength ASTM C580 (Resin, Hardener & Aggregate)	4,000 psi (281 kg/cm ²)
F. Surface Hardness ASTM D2240 Shore D	80-85
G. Indentation Characteristics (Steadily Applied Load) MIL-D-3134, Para. 4.7.4.2.1, 2000 lbs on 1" steel ram imposed for 30 minutes over a concrete substrate, indented	0.005" (0.127 mm)
H. Indentation Characteristics (Impact Load) MIL-D-3134, Para.4.7.3 (2 lb. .908 kg.) Indent from steel ball dropped twice from 8 ft. height	0.011" (0.28 mm)
I. Adhesion ASTM D4541 (100% failure in concrete)	> 400 psi (28.1 kg/cm)
J. Water Absorption MIL-D-3134	< 1.0%
K. Abrasion Resistance ASTM D4060 (CS17, 1000gr load, 1000 cycles)	0.09 gr
L. Flammability ASTM D635	Self-Extinguishing Bonded to Concrete
M. Skid Resistance	Varies depending upon surface texture selected. (See Crossfield Skid Resistance Characteristic)
N. Microbial Resistant ASTM G21	Passes
O. Chemical Resistant (see Chemical Resistance Chart)	

3. OVERVIEW OF INSTALLATION STEPS

- A.** Prepare surface by careful and thorough removal of all laitance, grease, concrete curing agents and foreign matter.
- B.** Apply trowel coating of epoxy primer.
- C.** Trowel self-leveling epoxy adhesion coat. Into wet adhesion coat, trowel or squeegee broadcast quartz granule aggregate. Scrape off and vacuum up excess aggregate.
- D.** Apply coats of clear resin by trowel or squeegee to fill and seal aggregate to specified texture.

4. PRODUCT AVAILABILITY

Crossfield Products Corp. maintains offices and/or factories at all addresses listed below. Factory Trained Contractors are established in all major trading areas in the United States, Canada and various European, Latin American and Far East nations.

5. SKID RESISTANCE and CLEANABILITY

In general, the more aggressive the finished surface the greater the coefficient of friction and corresponding skid resistance, the more difficult to clean. The smoother the finished texture the easier the surface is to clean, but there is a loss of skid resistant properties.

6. CLEANING

Cleaning and disinfecting compounds and cleaning techniques can affect the color, gloss, texture and performance of the system. As a precautionary step, Crossfield recommends that the end-user test their cleaning and disinfecting compounds on a sample or on a small, out of the way finished area, utilizing the intended cleaning technique prior to cleaning the entire surface area. If no deleterious effects are observed, the procedure can be continued. If the cleaning and disinfecting compounds or cleaning techniques damage the system, modification of the cleaning material or techniques will be required. Contact your Representative for additional information.

7. SPECIFICATION ASSISTANCE

Consult Crossfield Products Corp. for specification assistance, detailing, etc. This consultation is highly recommended prior to specification.

8. CHEMICAL RESISTANCE

See Crossfield Products Corp.'s. Chemical Resistance Guidelines for chemical resistance of a product or system, as well as the types of test performed:

- ASTM C868 Standard Test Method for Chemical Resistance of Protective Lining.
- ASTM C267 Standard Test Method for Chemical Resistance of Mortars, Grouts, and Monolithic Surfacing and Polymer Concretes.
- ASTM D1308 Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes.
- Crossfield Products Corp. Proprietary Testing.

Note: Chemical resistance is a functional test, usually limited to changes in weight or thickness measured in loss or gain and does not evaluate subject aesthetic issues. To determine aesthetic issues, Crossfield recommends testing the products or system in accordance with intended end use.

9. TESTING

The technical data contained herein is the result of tests made in Crossfield's laboratories or in independent laboratories using small scale equipment, following generally accepted trade practices. Although this information is believed to be true and accurate, the use of different equipment for testing under dissimilar conditions or the testing of samples produced under dissimilar conditions may develop substantially different results.

LIMITED WARRANTY

NO WARRANTY SHALL BE EFFECTIVE UNTIL THE TERMS AND CONDITIONS OF SALE SET FORTH IN CROSSFIELD PRODUCTS CORP. INVOICES ARE MET.

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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